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NOTICE OF ALLOWANCE AND FEE(S) DUE

52349

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05/01/2009

WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East Washington, DC 20005-1503

| EXAMINER | | | | | |
|--------------|--------------|--|--|--|--|
| HA, NGUYEN T | | | | | |
| ART UNIT | PAPER NUMBER | | | | |
| 2821 | | | | | |

DATE MAILED: 05/01/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/581.339 | 06/02/2006 | Masavuki Sato | 2006 0831A | 6224 |

TITLE OF INVENTION: COIN-SHAPED STORAGE CELL

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 08/03/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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| Washington, DC | 20005-1503 | | | | | | | (Depositor's name) |
| | | | | | | | | (Signature) |
| | | | L | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENT | OR | A | ATTOR | NEY DOCKET NO. | CONFIRMATION NO. |
| 10/581,339 ITLE OF INVENTION | 06/02/2006 : COIN-SHAPED STOI | RAGE CELL | Masayuki Sato | | | 2 | 2006_0831A | 6224 |
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| HA, NGU | U YEN T | 2831 | 361-502000 | _ | | | | |
| Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | (1) the names of up or agents OR, altern (2) the name of a si registered attorney | of a single firm (having as a member a rney or agent) and the names of up to atent attorneys or agents. If no name is | | | | |
| PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG | ess an assignee is identi h in 37 CFR 3.11. Comp GNEE | | data will appear on th T a substitute for filing (B) RESIDENCE: (Cl | e pai an a | tent. If an assignee ssignment. and STATE OR CO | UNTF | RY) | cument has been filed for up entity |
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| a. Applicant claims | tus (from status indicated s SMALL ENTITY statu | is. See 37 CFR 1.27. | ☐ b. Applicant is no | | | | | |
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| application. Confident bmitting the completed is form and/or suggesti | tiality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC | U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th | 1.14. This collection is depending upon the ir e Chief Information Of | esti idivi ficer | mated to take 12 mi dual case. Any com . U.S. Patent and Tr | nutes t ments | to complete, including on the amount of tin ark Office, U.S. Depa | by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| WENDEROTH, | LIND & PONACK I | HA, NG | UYEN T | |
| 1030 15th Street, N | N.W. | | ART UNIT | PAPER NUMBER |
| Suite 400 East Washington, DC 20005-1503 | | | 2831 DATE MAILED: 05/01/200 | 9 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 315 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 315 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| Application No. | Applicant(s) | |
|--|--|--|
| 10/581.339 | SATO ET AL. | |
| Examiner | Art Unit | |
| NGUYEN T. HA | 2831 | |
| (OR REMAINS) CLOSED in or other appropriate commu | n this application. If not including this application. If not including the mailed in due | led course. THIS |
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| e been received. e been received in Application occuments have been received of this communication to file MENT of this application. Initted. Note the attached EXA es reason(s) why the oath or set be submitted. Is son's Patent Drawing Review. Is Amendment / Comment or 1.84(c)) should be written on the the header according to 37 CF posit of BIOLOGICAL MATE | on No In this national stage application this national stage application are a reply complying with the research of the drawings in the front (not the R 1.121(d)). ERIAL must be submitted. | equirements NOTICE OF e back) of |
| 6. ☐ Interview Sı Paper No./ 7. ☐ Examiner's 8. ☒ Examiner's | ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for All | owance |
| | Examiner NGUYEN T. HA Lears on the cover sheet wire (OR REMAINS) CLOSED in the cover of the communication is set and MPEP 1308. Learn of the cover sheet wire (OR REMAINS) CLOSED in the communication is set and MPEP 1308. Learn of the cover sheet wire (OR REMAINS) CLOSED in the communication is set and MPEP 1308. Learn of the cover sheet wire (OR REMAINS) CLOSED in the communication is set and MPEP 1308. Learn of this communication to fill the communication to fill the communication to fill the communication to fill the communication. Learn of this communication to fill the communication to fill the communication to fill the communication. Learn of this communication to fill the communication to fill the communication. Learn of this communication to fill the communication to fill the communication to fill the communication. Learn of this communication to fill the communication to fill the communication to fill the communication. Learn of this communication to fill the communication to fill the communication. Learn of this communication to fill the communication to fill the communication to fill the communication to fill the communication. Learn of this communication to fill the communication to fill the communication to fill the communication. Learn of this communication to fill the c | Examiner NGUYEN T. HA Pears on the cover sheet with the correspondence addition. If not include or other appropriate communication will be mailed in due and MPEP 1308. Inder 35 U.S.C. § 119(a)-(d) or (f). Inder 35 U.S. |

DETAILED ACTION

Response to Amendment

The examiner acknowledges the applicant's submission of the amendment dated 1/29/2009. At this point, claims 14, 17, 19, and 21 have been amended, claims 16, 23, and 25-30 have been canceled, and claims 31-39 have been added. Thus, claims 14, 15, 17-22, 24 and 31-39 are pending in the instant application.

Allowable Subject Matter

Claims 14-15, 17-22, 24, 31-39 are allowed.

The following is an examiner's statement of reasons for allowance:

With respect to claims 14-15, 18 and 24, the prior art alone or in combination does not teach the limitation of a coin-shaped storage cell comprising a top lid which is integrally caulked with the metal case via the ring packing wherein the metal case includes an inner bottom surface formed with asperities, wherein the asperities are in the form of a plurality of concentric circular rings, the asperities being formed by making the center of the circular rings and the center of the inner bottom surface of the metal case in agreement with each other.

With respect to claims 17 and 31-33, the prior art alone or in combination does not teach the limitation of a coin-shaped storage cell comprising a top lid which is integrally caulked with the metal case vie the ring packing, wherein the metal case includes an inner bottom surface formed with asperities and wherein the asperities are formed only on an area of the inner bottom surface of the metal case where the metal case opposes the ring packing.

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With respect to claims 19-20, and 34-36, the prior art alone or in combination does not teach the limitation of a coin-shaped storage cell comprising a top lid which is integrally caulked with the metal case via the ring packing, and a sealing auxiliary member which is interposed between the metal case and the ring packing, wherein the metal case includes an inner bottom surface formed with asperities.

With respect to claims 21-22, and 37-39, the prior art alone or in combination does not teach the limitation of a coin-shaped storage cell comprising a top lid which is integrally caulked with metal case vie the ring packing, and a first annular bulging portion which is integrally formed with an outer periphery of the metal case, the first annular bulging portion protruding toward the ring packing, wherein the metal case includes an inner bottom surface formed with asperities.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citation Relevant of Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Thrap et al. (US 7,440,258) disclose thermal interconnects for coupling energy storage device.
 - b. Nemoto et al. (US 7,321,486) disclose electric double layer capacitor.
 - c. Erhardt et al. (US 7,016,178) disclose capacitor housing.

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d. Muffoletto et al. (US 6,334,879) disclose method for providing a hermetically sealed capacitor.

e. Casale et al. (US 6,023, 146) disclose battery system electrical connection apparatus and method.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGUYEN T. HA whose telephone number is (571)272-1974. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Nguyen T Ha/ Primary Examiner, Art Unit 2831